**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Pre-Algebra Study Guide: Chapter 2**

**Lesson 1**

Define and give examples for the following properties:

1. Commutative Property of Addition/Multiplication

|  |  |
| --- | --- |
| Definition: | Examples: |

2. Associative Property of Addition/Multiplication

|  |  |
| --- | --- |
| Definition: | Examples: |

3. Identity property of addition (Additive Identity)

|  |  |
| --- | --- |
| Definition: | Examples: |

4. Identify property of multiplication (Multiplicative Identity)

|  |  |
| --- | --- |
| Definition: | Examples: |

**Lesson 2**

6. Apply the distributive property to each expression

|  |  |  |
| --- | --- | --- |
| A.  2(8 – x) | B.  -3(x+5) | C.  -4(x – y) |

**Lesson 3**

Simplify by using the distributive property and combining like terms:

|  |  |
| --- | --- |
| 7. 5(x + y) – 2y | 8. 5a + 2b + 3a – 7b |
| 9. 3(2r – 5) + 8(r + 2) | |



**Lesson 4 and 5**

SOLVE each equation. Show the balancing of the equation (ie the property of equality). CHECK your work by plugging your value back into the original equation. Use the integer rules above to make sure you are solving correctly.

11. k – 23 = - 17 12. T ÷ -5 = 15 13. 7w = -217

14. P + 38 = -12 15. y – 42 = 12 16. 11 + x = - 8

**Solve Check**

|  |  |
| --- | --- |
| 11. |  |
| 12. |  |
| 13. |  |
| 14. |  |
| 15. |  |
| 16. |  |